

548512/19/05

**CITY OF RIVERSIDE**  
**HUMAN RESOURCES DEPARTMENT**  
**CLASSIFICATION SPECIFICATION**

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Revised

**TITLE: UTILITIES WATER MAINTENANCE MECHANIC**

**DEFINITION**

Under general supervision, to perform skilled work in the installation, maintenance, and repair of drinking and irrigation water production, distribution and treatment facilities mechanical and electro-mechanical machinery and equipment; and to do related work as required.

**REPORTS TO:** Utilities Senior Water Control Systems Technician

**SUPERVISION RECEIVED AND EXERCISED**

Receives general supervision from the Utilities Senior Water Control Systems Technician. May exercise lead direction and/or training to lesser skilled workers, as assigned.

**EXAMPLES OF DUTIES**

Typical duties may include, but are not limited to, the following:

- Install, replace, repair and adjust pumps, valves, pipes, flow meters, chlorinators, pumping equipment, pressure gauges and other appurtenant equipment of water production, distribution and treatment facilities.
- Operate lathe, milling machine and other machine tools in repair of large pumps, variable speed drives, motors, chain drives, sewerage lift station and related equipment.
- Replace packing in pumps and valves and bearings in motors, pumps, natural gas engines and other equipment.
- Maintain and repair piping systems and to do related plumbing and pipefitting tasks.
- Lubricate equipment and check for malfunctions.
- Use gas and/or arc welding equipment to heat, cut, braze, and weld.
- Install pumps, variable speed drives and motors, timing devices and assist in installing telemetering electrical equipment.
- Perform general building maintenance and repair, including rough carpentry, pouring and finishing concrete, painting and related work.
- Use of a variety of hand and power hand tools, and may operate overhead traveling and truck cranes.
- Read plans and drawings pertaining to the water production, distribution and treatment facilities.
- May act as lead worker directing semi-skilled and unskilled employees on construction and maintenance work.
- Participate in related divisional cross-training efforts.
- Operate, keep clean and perform minor maintenance to assigned City vehicle.

## QUALIFICATIONS

### Knowledge of:

- Standard practices, procedures, tools, and materials used in the installation, maintenance, and repair of heavy plant equipment, pumps, motors, controllers, variable speed and chain drives and lift stations.
- General methods of related electrical, carpentry, plumbing, and pipefitting repairs and building maintenance and repair.
- 460 Volts Alternating Current 3-phase system and Programming Logic Control controls pertaining to operations of natural gas engine.
- Occupational hazards and safety precautions necessary in the work.
- Practices, procedures, tools, and equipment of machine and welding shops.
- City water system operating policies and procedures.

### Ability to:

- Perform skilled mechanical maintenance and repair work independently.
- Understand and carry out oral and written instructions.
- Work from sketches, blueprints, and manufacturer's diagrams.
- Use and care for hand and power hand tools, machines, and equipment of the mechanical trades.
- Work overtime as required.

### Education and Experience:

Any combination of experience and education that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:

*Education:* Equivalent to the completion of the twelfth grade.

*Experience:* Three years of experience in the installation, repair, and maintenance of heavy mechanical equipment such as pumps, motors, vari-speed and chain drives, lift stations and all other related equipment.

**MEDICAL CATEGORY:** Group 2

## NECESSARY SPECIAL REQUIREMENT

Possession of, or ability to obtain, an appropriate, valid class "C" California Motor Vehicle Operator's License.

Possession of a Grade 2 Water Distribution Operator certificate issued by the California Department of Health Services (DHS). Must be able to obtain full certification requirements within eighteen (18) months of employment.

## CAREER ADVANCEMENT OPPORTUNITIES

**FROM:** Utilities Water Maintenance Mechanic

**TO:** Utilities Senior Water Control Systems Technician